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APPLICATION NO. FILING DATE		LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/696,204 10/29/2003		10/29/2003	Ying Zhou	ITL.1024US (P16711) 7312		
21906	7590	10/05/2004		EXAMINER		
TROP PRU	JNER & I	HU, PC	ESTRADA, MICHELLE			
8554 KATY	FREEWA	ΛY		ADTIBUT	DARED MIMBER	
SUITE 100				ART UNIT	PAPER NUMBER	
HOUSTON,	TX 770	24	2823			

DATE MAILED: 10/05/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applicati	on No.	Applicant(s)				
Office Action Summary		10/696,2	04	ZHOU ET AL.				
		Examine	r	Art Unit				
		Michelle	Estrada	2823				
Period fo	The MAILING DATE of this communication or Reply	n appears on the	e cover sheet with the c	orrespondence ad	dress			
THE - Exte after - If the - If NO - Failu	ORTENED STATUTORY PERIOD FOR REMAILING DATE OF THIS COMMUNICATIOnsions of time may be available under the provisions of 37 CF SIX (6) MONTHS from the mailing date of this communication period for reply specified above is less than thirty (30) days, a period for reply is specified above, the maximum statutory per to reply within the set or extended period for reply will, by steply received by the Office later than three months after the results of the set of	ON. FR 1.136(a). In no evol. a reply within the state teriod will apply and w statute, cause the app	ent, however, may a reply be time tutory minimum of thirty (30) days rill expire SIX (6) MONTHS from Dication to become ABANDONE	nely filed s will be considered timely the mailing date of this co D (35 U.S.C. § 133).				
earn	ed patent term adjustment. See 37 CFR 1.704(b).	· ·	,	•				
Status —								
,—	Responsive to communication(s) filed on 29 October 2003.							
•	This action is FINAL . 2b)⊠ This action is non-final.							
3)∐	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	ion of Claims							
4)🖂	Claim(s) <u>1-30</u> is/are pending in the applica	ation.						
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
6)⊠	☐ Claim(s) <u>1-4,11-13,19,21 and 26</u> is/are rejected.							
7)🖂	☑ Claim(s) <u>5-10,14-18,20,22-25 and 27-30</u> is/are objected to.							
8)	Claim(s) are subject to restriction ar	nd/or election r	equirement.	•				
Applicati	ion Papers							
9)□	The specification is objected to by the Exar	miner.						
•	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by the	e Examiner. N	ote the attached Office	Action or form PT	⁻ O-152.			
Priority ι	under 35 U.S.C. § 119							
	Acknowledgment is made of a claim for form All b) Some * c) None of: 1. Certified copies of the priority document of the priority document of the priority document of the certified copies of the c	ments have bee ments have bee priority docume	en received. en received in Application ents have been receive	on No	Stage			
	application from the International Bu							
* 5	See the attached detailed Office action for a	a list of the certi	fied copies not receive	d.				
Attachmen	t(s)				103			
	e of References Cited (PTO-892)		4) Interview Summary					
	e of Draftsperson's Patent Drawing Review (PTO-948		Paper No(s)/Mail Da 5) Notice of Informal P		1.152)			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SE r No(s)/Mail Date <u>4/5/04</u> .	B/08)	6) Other:	arent Ukhinatini ILTC	/- IUG)			

Application/Control Number: 10/696,204

Art Unit: 2823

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-4, 11-13, 19, 21 and 26 are rejected under 35 U.S.C. 102(e) as being anticipated by Yao (6,679,996).

With respect to claim 1, Yao discloses soaking a substrate (1) having a dielectric (2) deposited thereon in a salt solution (Col. 7, lines 12-25); and depositing an oxide (3) on said dielectric.

With respect to claim 2, Yao discloses wherein depositing an oxide on said dielectric includes depositing aluminum oxide on said dielectric (Col. 9, lines 17-32), the Examiner clarifies that Yao discloses using a fluoride ion capturing agent added to the aqueous solution to deposit the layer of a corresponding metal oxide or a solid solution thereof, one of these ion capturing agent can be aluminum chloride, therefore aluminum oxide will be formed on the dielectric layer since aluminum oxide is the corresponding metal oxide of aluminum chloride (Col. 9, lines 17-33).

Application/Control Number: 10/696,204

Art Unit: 2823

With respect to claim 3, Yao discloses wherein soaking said substrate in said salt solution includes soaking said substrate in a salt solution comprising an aluminum salt (Col. 9, lines 29-32 and 58-61).

With respect to claim 4, Yao discloses wherein soaking said substrate in said salt solution comprising said aluminum salt includes soaking said substrate in a aqueous solution comprising the capturing agent, therefore the salt solution comprises aluminum chloride dissolved in water (Col. 7, lines 15-25).

With respect to claim 11, Yao discloses preparing a salt solution (Col. 7, lines 23-30); exposing a dielectric (2) deposited on a substrate to said salt solution; and causing an oxide to deposit on said dielectric (Col. 7, lines 12-20).

With respect to claim 12, Yao discloses wherein preparing said salt solution includes preparing an aluminum salt solution (Col. 9, lines 29-31).

With respect to claim 13, Yao discloses wherein preparing said aluminum salt solution includes preparing an aluminum chloride solution (Col. 9, lines 29-31).

With respect to claim 19, Yao discloses removing said substrate from said salt solution and rinsing (Col. 11, lines 1-8).

With respect to claim 21, Yao discloses depositing a dielectric (2) on a substrate (1); and causing an oxide (3) to deposit on said dielectric by immersing said substrate in a salt solution (Col. 7, lines 12-30).

With respect to claim 26, Yao discloses wherein depositing an oxide on said dielectric includes depositing aluminum oxide on said dielectric by immersing said substrate in an aluminum salt solution (Col. 9, lines 17-32), the Examiner clarifies that

Art Unit: 2823

Yao discloses using a fluoride ion capturing agent added to the aqueous solution to deposit the layer of a corresponding metal oxide or a solid solution thereof, one of these ion capturing agent can be aluminum chloride, therefore aluminum oxide will be formed on the dielectric layer since aluminum oxide is the corresponding metal oxide of

aluminum chloride (Col. 9, lines 17-33).

Allowable Subject Matter

Claims 5-10, 14-18, 20, 22-25 and 27-30 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michelle Estrada whose telephone number is 571-272-1858. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Olik Chaudhuri can be reached on 571-272-1855. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571-272-2800.

Michelle Estrada
Examiner
Art Unit 2823

ME September 28, 2004